ACTION PLAN

Summary of ChangesJanuary 31, 2000

1.	Cover Page	Date changed
2.	Page 3	Miranda Swanson added to Non-Member Participant List
3.	Page 4 (Not included)	State EMSA OTS Grant box moved under Subgroup 1
4.	Page 7	Goal 3 revised to change reference from "NHTSA data set" to "national data sets."
5.	Page 8	Notes 2 and 3 added to define "provider" and reference sensitivity to rural EMS systems limited funding and resources.
6.	Page 10	a. 2.1.6 moved up to 2.1.4 with a July 2000 completion date.b. (The reference to "guidelines" in 2.1.7 was left and dealt with on page 31)
7.	Page 12-13	 a. Goal 3 revised to change reference from "NHTSA data set" to "national data sets." b. HIPPA reference removed from 3.1-3.4 c. 3.1.2 - 3.1.10 dates changed to June 2001 d "ambulance" removed from "transport provider" in 3.1.5 e. Date for 3.3.2 changed to October 2000 f. One year added to all dates under 3.4
8.	Page 14	 a. 3.6.2 added b. All other dates under 3.6 extended to coordinate with other referenced objectives
9.	Page 15	Added new 4.1.3 to address "blinding of data" issue.
10.	Page 15,16	Language referencing HIPPA added to 4.1 and 4.2
11.	Page 17 & 21	"Provider" added to "state and local level" in 5.1 and 8.2.3
12.	Page 31	Note added to clarify that "Guidelines" may need to be changed to regulation or statue if identified as needed in the future.

Shaping the Future of EMS in California

Vision Working Group D **System Review and Data**

ACTION PLAN

(Draft) January 31, 2000

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Background

In 1997, under the direction and guidance of the California Commission on Emergency Medical Services and the State EMS Authority, the EMS community in California embarked upon an aggressive and unprecedented statewide EMS planning process which would eventually culminate in the development of a, first ever, *State EMS Plan*. The impetus for this project was multifaceted. The impact of managed care, current and anticipated future reductions in reimbursement for EMS services, litigation concerning lines of authority for EMS oversight, conflicting legislation being introduced by various EMS constituency groups, and the lack of standardization of local EMS services were a few of the factors which highlighted the need for the review and redesign of the EMS system in the state.

The first phase of the planning project was the creation of a common vision among EMS constituency groups, and the development of strategic goals. To begin the process, the EMS Commission established eight, multi-disciplinary subcommittees to identify the most important deficiencies of the present EMS system and devise a consensus implementation strategy to correct them. The results of the subcommittees' work was presented at an EMS vision conference held in December 1998 in San Francisco. At that conference, the objectives from each of the subcommittees were refined and eventually chronicled in a vision conference summary entitled, "Shaping the Future of EMS in California." In addition to the state vision process, the State EMS Authority also invited the National Highway Traffic Safety Administration (NHTSA) to conduct an assessment of the California EMS system. This comprehensive, four-day assessment by a team of national EMS system experts, was completed in August of 1999.

Shaping the Future of EMS in California contained sixty-six strategic objectives, and the NHTSA assessment contained ninety recommendations for system improvement. To further address these issues, the vision objectives and NHTSA recommendations were divided into six major categories: Funding, Governance and Medical Control, Education and Personnel, System Review and Data, Access, and Prevention. A vision process committee, or Work Group, was assigned to each category. The charge of each of the Work Groups was twofold. Phase I would include the development of action plans by each of the groups to address the objectives and recommendations assigned to them. Once the action plans were approved by the EMS Commission, the groups would begin Phase II of the project which is to complete the steps outlined in the action plans. The entire process is estimated to be accomplished by December 2002.

The EMS Commission has retained overall administration of the process and has identified a Vision Project Team to provide ongoing oversight of the project. Prevention 2000 grant funding has been identified and funded through the Sierra-Sacramento Valley EMS Agency to cover

project expenses. This grant project includes funding to hire a Project Manager, who will direct the project and serve on the Vision Project Team along with the EMS Authority Director, an EMS Commissioner, and the leaders of each of the six working groups. While the Project Team will utilize the action plans submitted by all six of the work groups to incorporate them into a single State EMS Plan, this report focuses only on the action plan of the System Review and Data Vision Committee, or Work Group "D."

Work Group D was assigned fourteen of the sixty-six vision objectives and fifteen of the NHTSA recommendations (See Appendix A). At the first meeting of the group, held in September 1999, three subgroups were created; 1) Data System Design, 2) Evaluation & Improvement, and 3) Legislation. Leaders and members were identified, and overlapping objectives and recommendations were consolidated and divided among each of the subgroups. A state funded, Statewide EMS System Evaluation Grant project cosponsored by the Mountain-Valley, Los Angeles, and North Coast EMS Agencies, which has accomplished much of the preliminary work in the development of system indicators, organizational structure, and quality improvement was also integrated into the Work Group D efforts under the Evaluation and Improvement subgroup. A three year, Office of Traffic Safety (OTS) grant project awarded to the State EMS Authority to assist in the development of the Work Group D objectives, will also be coordinated with, and integrated into, this vision project.

Following the September meeting, the subgroups identified ten goals which encompassed the vision objectives and NHTSA recommendations and incorporated them into the work group *Project Goals* (page 7). These Project Goals were designed to provide overall guidance and direction for the group. Objectives and action steps were then developed to meet each of the identified goals. These goals, objectives and action steps provide the mechanism to complete a comprehensive EMS system evaluation for the state and the completion of this report fulfills the charge of Phase I of the project, *creating an action plan*.

Acknowledgments

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<u>Planning Structure</u>

Executive Summary

"We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one we intend to win..."

> John F. Kennedy Rice University - September 12, 1962

It may seem a bit pretentious to compare the development of a statewide data and system review process for EMS with the 1960's race to land a man on the moon. However, as we set out to map the direction we will take, the task seems just as arduous. Perhaps this is why no state in the nation has yet fully accomplished this feat.

Not unlike the quest to conquer space, developing a sound mechanism to measure the effectiveness of, and improve the services provided by the EMS system in California has begun with a vision. This vision was revealed at the December 1998 vision conference and became the impetus for the process outlined in this Action Plan. The goals, objectives, and action steps included in this document provide a step-by-step process to bring us from the fragmented and uncoordinated EMS evaluation system in place today, to an established and comprehensive system that allows for effective evaluation and improvement of the services we perform.

Included in this action plan is a process for the periodic evaluation of the state EMS regulatory agencies to ensure these lead organizations are providing the necessary leadership and direction to the EMS development and maintenance process. The plan outlines a method for the development of a standardized EMS data collection system that will ensure that accurate and timely data can be collected and shared among EMS system participants, and will allow integration and sharing of that data with other private, state, and federal agencies and organizations as appropriate.

This plan promotes the establishment of standardized performance indicators to facilitate comparative analysis of EMS system performance among the local systems and EMS providers. It creates a mechanism for the data to be utilized in a statewide, continuous quality improvement process that provides ongoing system enhancement, as well as establishes linkages with EMS training and prevention programs to ensure that needs identified through the evaluation process are integrated into these EMS training curriculum and prevention efforts. It also calls for system evaluation training for all levels of EMS system personnel to ensure proper documentation, data entry, analysis, and utilization of data.

This action plan will also serve as a template for coordinating the revision of EMS regulations and promoting new legislation associated with EMS data collection and system evaluation. It provides for the coordination of efforts with other state work groups and standing committees and promotes the utilization of national standards whenever possible.

Once the objectives of this plan are successfully realized, they will provide for strengthened immunity and discovery protection for all local and state EMS quality improvement processes. They will also provide guidelines for conducting and funding state supported or state required research. And finally, they will provide for the development of a sound organizational structure and standard operating procedures necessary for the implementation and maintenance of the EMS data collection, evaluation, and improvement process.

Project Goals

The future EMS evaluation and improvement system in the state of California will include:

- 1. A mechanism for periodic performance evaluations of the state's EMS regulatory agencies.
- 2. A comprehensive data collection system capable of gathering and integrating pertinent, timely, and accurate data from all state EMS system participants, and providing data linkages with other private, state, and federal agencies and organizations as appropriate.
- 3. Standardized definitions, indicators, and benchmarks, to include the consideration of all national EMS data sets, to facilitate comparative analysis of local system performance, quality of patient care, customer satisfaction, and system cost on a state and national level.
- 4. A mechanism to ensure feedback of data reports to all contributing agencies while maintaining confidentiality and security of the data. This process will include a mechanism for prehospital personnel to receive timely feedback on the physician diagnosis and disposition of their patients.
- 5. A mechanism to ensure the data is utilized at the state, local and provider level for continuous quality improvement aimed at improving EMS services and quality of patient care, decreasing death and disability, and reducing costs.
- 6. Communication linkages with EMS training and prevention programs to ensure needs identified through the evaluation process are integrated into the EMS training curriculum and prevention programs.
- 7. System evaluation training for all levels of EMS system personnel to ensure proper documentation, data entry, analysis, utilization of data and an understanding of the principles of research.
- 8. Immunity for medical control and quality improvement processes and discovery protection for all local and state EMS quality improvement efforts to ensure cooperation and participation of all EMS participants in patient care and EMS service evaluation.
- 9. Guidelines for conducting and funding state supported or state required EMS research.
- 10. An organizational structure, standard operating procedures and funding necessary for the implementation and maintenance of a statewide EMS data collection, evaluation and improvement process.

Objectives and Action Steps

NOTE 1: All project years listed under the *Estimated Completion Date* column are calculated on a calendar year. Year 1 =

2000, Year 2 = 2001, Year 3 = 2002

NOTE 2: The definition of "provider" as utilized in this section includes all EMS service providers to include: training

programs, dispatch centers, first response agencies, transport providers, special response services, base hospitals,

and patient receiving facilities.

NOTE 3: It shall be recognized through the development and implementation of these objectives that rural EMS systems may

need to be given special consideration due to the limited resources and system funding in those areas.

GOAL 1 Establish a mechanism for the periodic performance evaluation of the state's EMS regulatory agencies.

Objec	etive 1.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop guidelines and criteria for periodic evaluation of the performance of the State EMS Authority.		No	No	State EMS Authority Evaluation Guidelines	Group D	Oct 2001
Action	Action Steps					
1.1.1	Develop draft evaluation criteria based upon <i>The B</i> NHTSA <i>Leadership Guide to Quality Improvemen</i> statutory and regulatory requirements and national perspective.	Group D	May 2000			
1.1.2	Establish recommendations for the evaluation procoften, evaluation forms, final reporting format and	duct the evaluation, how	Group D	June 2000		
1.1.3	Compile evaluation criteria and process recommen <i>Guidelines</i> document.	Group D	July 2000			
1.1.4	Submit draft guidelines to State EMSA for written	comment and	revise as need	ed.	Group D	Aug. 2000
1.1.5	Submit draft guidelines to Work Group D for com	al.	Group D	Oct. 2000		
1.1.6	Upon approval of the Project Team, submit draft g formal EMS guideline development process.	EMSA & Group D	Dec 2000			
1.1.7	Work with State EMSA to make revisions during p	oublic commen	t periods.		Group D	June 2001
1.1.8	Submit final guidelines to EMS Commission for adoption.				EMSA	Aug 2001
1.1.9	Conduct State EMS Authority evaluations based upon guidelines.				TBD	Ongoing
1.1.10	Evaluate if any regulatory or legislative changes ar section are followed.	e required to en	nsure the guid	elines established under this	EMSA & S Group 3	Oct. 2001

Objec	ctive 1.2	Development Funding Needed?	Implement Funding Needed	Final Deliverable	Activity Lead	Estimated Completio n Date	
	To develop guidelines and criteria for periodic No No Local EMS Agency evaluation of the performance of <u>local EMS agencies.</u> No No Local EMS Agency Evaluation Guidelines						
Action	Steps						
1.2.1	Develop draft evaluation criteria based upon <i>The E</i> NHTSA <i>Leadership Guide to Quality Improvemen</i> statutory, regulatory, and EMS system guideline resystem oversight.	Group D	May 2000				
1.2.2	Establish recommendations for the evaluation procoften, evaluation forms, final reporting format and	duct the evaluation, how	Group D	June 2000			
1.2.3	Establish process and format for comparative finar Organization and Financing of Local EMS Agence	Group D	June 2000				
1.2.4	Compile evaluation criteria and process recommen <i>Guidelines</i> document.	S Agency Evaluation	Group D	July 2000			
1.2.5	Submit draft guidelines to State EMSA for written	comment and	revise as need	ed.	Group D	Aug 2000	
1.2.6	Submit draft guidelines to Work Group D for com-	al.	Group D	Oct 2000			
1.2.7	Upon approval of the Project Team, submit draft g guideline development process.	EMSA& Group D	Dec 2000				
1.2.8	Work with State EMSA to make revisions during I	oublic commen	t periods.		Group D	June 2001	
1.2.9	Submit final guidelines to EMS Commission for a	EMSA	Aug 2001				
1.2.10	Conduct State EMS Authority evaluations based u	pon guidelines			TBD	Ongoing	
1.2.11	Evaluate if any regulatory or legislative changes ar section are followed.	re required to en	nsure the guid	elines established under this	EMSA & S Group 3	Oct 2001	

GOAL 2 Establish a comprehensive data collection system capable of gathering and integrating pertinent, timely, and accurate data from all state EMS system participants, and provide data linkages with other private, state, and federal agencies and organizations as appropriate.

Objec	ctive 2.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date	
To dev	To develop a statewide EMS data collection system. Yes Yes See 2.3						
Action	ı Steps						
2.1.1	Identify all EMS system participants from which d	ata would be re	equired.		S Group 1 & OTSG*	Feb 2000	
2.1.2	Conduct an evaluation of current EMS database sy system participants.	S Group 1 & OTSG	Mar 2000				
2.1.3	Research other statewide data collection models na upcoming technologies available for EMS data col	S Group 1 & OTSG	Apr 2000				
2.1.4	Identify need for legislation to ensure participation and forward to Subgroup 3 for legislative developer		lection systen	n by all system participants	S Group 1 & OTSG	July 2000	
2.1.5	Establish beta test version of a data collection system participants.	em capable of g	gathering data	from all state EMS	S Group 1 & OTSG	Oct 2000	
2.1.6	Identify the optimal EMS data collection model for collection forms and processes, input methodologic database(s) to be developed or utilized, and system	S Group 1 & OTSG	June 2001				
2.1.7	Develop a draft "EMS Data Collection Model" for Reporting Process Guidelines (See Objective 2.3).	S Group 1 & OTSG	Oct 2001				
2.18	Establish a comprehensive data collection system of from all EMS system participants.	capable of gath	ering pertinen	t, timely and accurate data	OTSG	Dec 2002	

^{*}State EMSA OTS Grant

Object	ctive 2.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
	elop process for linking EMS data with other , state, and federal agencies and organizations as riate.	Yes	Yes	See 2.3	S Group 1	Jun 2001
Action	<u>Steps</u>					
2.2.1	2.2.1 Identify potential agencies and organizations which may be interested in linking databases.					
2.2.2	Conduct meeting(s) with those agencies and organizations to establish interest in data linkages, identifying common patient identifiers, processes for linkages, and access and security.					Apr 2001
2.2.3	Develop written documentation of agencies/organi agencies which may be considered for future linkage linking the data to include access and security.				S Group 1 & OTSG	Jun 2001

2.2.4	Include the above in the State EMS Data Collection and Reporting Process Guidelines (See Objective 2.3).	S Group 1 & OTSG	Dec 2000
2.2.5	Contract for data linkage programming	OTSG	Jun 2001
2.2.6	Provide data linkages with other private, state and federal agencies and organizations as appropriate	OTSG	Dec 2002

Objec	ctive 2.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
	elop State Data Collection and Reporting Process ines Document.	Yes	No	State Data Collection and Reporting Process Guidelines	S Group 1	Nov 2002
Action	ı Steps					
2.3.1	2.3.1 Develop format for the document.					Dec 2000
2.3.2	Include written documentation from Objectives 2.1	S Group 1 & OTSG	Oct 2001			
2.3.3	Develop draft of <i>State EMS Data Collection and R</i> structure from Objective 10.1, all necessary charts, appendices.	S Group 1 & OTSG	Dec 2001			
2.3.4	Submit draft guidelines to State EMSA for written	ed.	S Group 1 & OTSG	Dec 2001		
2.3.5	3.5 Submit draft guidelines to Work Group D for comment and preliminary approval.					Feb 2002
2.3.6	Upon approval of the Project Team, submit draft guidelines to EMS Commission for approval to begin the formal EMS guideline development process.					Apr 2002
2.3.7	Work with State EMSA to make revisions during I	public commen	t periods.		Group D	Mar 2002
2.3.8	Submit final guidelines to EMS Commission for a	doption.			EMSA	Nov 2002

Obje	ctive 2.4	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
ensure	ke all necessary changes to current regulations to all data collection requirements developed under al are included.	No	No	Revised regulation language	S Group 3	Begin in Year 2
Action Steps						
2.4.1 Identify all current, and monitor proposed affected regulations.						Ongoing
2.4.2	Draft appropriate language revisions for each regulation which would ensure compliance with the <i>State Data Collection and Reporting Process Guidelines</i> .					
2.4.3	Upon approval of the Project Team, submit propos next round of regulation changes.	sed regulation r	revisions to the	e EMSA for inclusion in the	S Group 3 & OTSG	

GOAL 3
Establish standardized definitions, indicators, and benchmarks, to include the consideration of all national EMS Data sets, to facilitate comparative analysis of local system performance, quality of patient care, customer satisfaction, and system cost on a state and national level.

Objec	etive 3.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
indicate	To develop (or adopt current) standardized definitions, indicators, and benchmarks to facilitate comparative analysis of local system performance.					Jun 2001
Action	<u>Steps</u>					
3.1.1	Develop standardized process and format for defin	ition, indicator	and benchma	rk development.	S-Group 2	Jun 2000
3.1.2	Develop <u>Training Program</u> data indicators, benchm	narks, collection	n, and validati	on processes.	S-Group 2	Jun 2001
3.1.3	Develop <u>Dispatch</u> data indicators, benchmarks, col	lection, and va	lidation proce	sses.	S-Group 2	Jun 2001
3.1.4	Develop <u>First Response</u> data indicators, benchmark Safety, BLS, AED, and ALS.	S-Group 2	Jun 2001			
3.1.5	Develop <u>Transport Provider</u> data indicators, bench ALS, CCT, and Air Ambulance.	tion processes for; BLS,	S-Group 2	Jun 2001		
3.1.6	Develop Special Response Services data indicators	s, benchmarks,	collection, and	d validation processes.	S-Group 2	Jun 2001
3.1.7	Develop Base Hospital data indicators, benchmark	s, collection, a	nd validation _l	processes.	S-Group 2	Jun 2001
3.1.8	Develop Receiving Hospitals data indicators, bench	hmarks, collect	ion, and valid	ation processes.	S-Group 2	Jun 2001
3.1.9	Develop <u>Specialty Care Service</u> data indicators, be Trauma Centers, Pediatric Centers, Burn Centers,			lidation processes for;	S-Group 2	Jun 2001
3.1.10	Develop <u>Disaster/Multi-Casualty Incident</u> data indeprocesses.	S-Group 2	Jun 2001			
3.1.11	Conduct periodic data collection sample tests to ch	eck the feasibi	lity of the coll	ection process	S-Group 2	On going
3.1.12	Include all data indicators, benchmarks, collection, Evaluation Guidelines (See Objective 3.5) and Sta				S-Group 2	Aug 2001

Object	ctive 3.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
indicate	To develop (or adopt current) standardized definitions, indicators, and benchmarks to facilitate comparative analysis of quality of care.					
Action Steps						
3.2.1	Develop standardized Treatment Protocols Compliance data indicators, benchmarks, collection, and validation processes.					Mar 2001
3.2.2	Develop standardized Skill Success Rates data indicators, benchmarks, collection, and validation processes.					Mar 2001
3.2.3	Develop mechanisms to evaluate the effectiveness expert data review process and research.	of treatment pr	otocols throug	gh, but not limited to, an	S Group 2	Mar 2001

3.2.4	Include all data indicators, benchmarks, collection, and validation processes in State EMS System	S Group 2	Jun 2001
	Evaluation Guidelines (See Objective 3.5) and State EMS Data Set (See Objective 3.6).		

Object	ctive 3.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop (or adopt current) standardized definitions, indicators, and benchmarks to facilitate comparative analysis of <u>EMS customer satisfaction</u> . Yes No See Objective 3.5				S Group 2	Jun 2001	
Action Steps						
3.3.1	.1 Identify all customer groups.					Mar 2000
3.3.2	Develop, through the utilization of focus groups are of expectations of those groups.	nd surveys of th	ne pre-identifi	ed customer groups, a list	S Group 2	Oct 2000
3.3.3	Develop draft data indicators and benchmarks to n	neasure those ex	xpectations.		S Group 2	Dec 2000
3.3.4	3.3.4 Develop processes to collect and validate data from customer groups.					Apr 2001
3.3.5	Include all data indicators, benchmarks, collection, and validation processes in <i>State EMS System Evaluation Guidelines</i> (See Objective 3.5) and <i>State EMS Data Set</i> (See Objective 3.6).					Jun 2001

Objec	ctive 3.4	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
indicate	To develop (or adopt current) standardized definitions, indicators, and benchmarks to facilitate comparative analysis of cost of EMS services.				S Group 2	Jun 2002
Action	<u>Steps</u>					
3.4.1	Identify all cost centers associated with EMS servi	ces.			S Group 2	May 2001
3.4.2	Conduct meeting(s) with representative from each type of cost center to determine types of cost which would require ongoing evaluation and monitoring.					July 2001
3.4.3	Identify existing standards for the measurement of	EMS / health c	eare costs for e	each cost center identified.	S Group 2	Sept 2001
3.4.4	Develop cost trend analysis and cost ratio criteria b	pased upon the	above.		S Group 2	Nov 2001
3.4.5	Develop data indicators, benchmarks, collection, a trends and ratios from all cost centers.	nd validation p	rocesses nece	ssary to evaluate cost	S Group 2	Jan 2002
3.4.6	Identify and mandate confidentiality and blinding	mechanisms to	ensure securit	y of proprietary data.	S Group 2	Apr 2002
3.4.7	Evaluate the need for legislation to ensure compliance and participation of all identified cost centers, and forward those legislative needs to the Legislative Subgroup 3.				S Group 2	Apr 2002
3.4.8	Include all data indicators, benchmarks, collection, Evaluation Guidelines (See Objective 3.5) and Sta				S Group 2	Jun 2002

Objective 3.5	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
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To dev	elop State EMS System Evaluation Guidelines.	Yes	No	State EMS System Evaluation Guidelines	S Group	Begin in Year 2	
Action	Action Steps						
3.5.1	Draft State EMS System Evaluation Guidelines to a components of Objective 10.1 (Organizational Structure)	S Group 2					
3.5.2	Submit State EMS System Evaluation Guidelines to Work Group D for preliminary approval.						
3.5.3		Upon approval of the Project Team, submit <i>State EMS System Evaluation Guidelines</i> to the State EMS Commission for approval to begin the formal EMS guideline development process.					
3.5.4	Work with State EMSA to make revisions during public comment periods.				Group D		
3.5.5	Submit guidelines to EMS Commission for adoption	on.			EMSA		

Objec	ctive 3.6	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date	
To deve	To develop a State EMS Data Set Yes No State EMS Data Set						
Action	<u>Steps</u>						
3.6.1	Research and review all currently existing EMS da	ta sets at a state	e and national	level.	S Group 1 & OTSG	Apr 2000	
3.6.2	3.6.2 Develop a preliminary draft data set to use in data system development.						
3.6.3	Identify all data elements required under Objective	S Group 1 & OTSG	July 2001				
3.6.4	Identify any other data elements required as part of	f this action pla	ın.		S Group 1 & OTSG	Aug 2001	
3.6.5	Revise, and reformat if needed the current State EN	MS Data Set.			S Group 1 & OTSG	Sept 2001	
3.6.6	Submit draft of revised State EMS Data Set to Wo	rk Group D for	preliminary a	pproval.	S Group 1 & OTSG	Nov 2001	
3.6.7	Upon approval of the Project Team, submit revised State EMS Data Set to the State EMS Commission as draft guidelines for approval to begin the formal EMS guideline development process.				EMSA & Group D	Dec 2001	
3.6.8	8 Work with State EMSA to make revisions during public comment periods.				Group D	Mar 2002	
3.6.9	Submit guidelines to EMS Commission for adoption	on.			EMSA	May 2002	

Objective 3.7	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To make all necessary changes to current regulations to ensure all EMS system evaluation requirements developed under this goal are included.	No	No	Revised regulation language	S Group 3	Begin in Year 2

Action	<u>Steps</u>		
3.7.1	Identify all current, and monitor proposed affected regulations.	S Group 3	Ongoing
3.7.2	Draft appropriate language revisions for each regulation which would ensure compliance with the <i>State EMS System Evaluation Guidelines</i> .	S Group 3	
3.7.3	Upon approval of the Project Team, submit proposed regulation revisions to the EMSA for inclusion in the next round of regulation changes.	S Group 3	

GOAL 4 Establish a mechanism to ensure feedback of data reports to all contributing agencies while maintaining confidentiality and security of the data. This process will include a mechanism for prehospital personnel to receive timely feedback on the physician diagnosis and disposition of their patients.

Objec	ctive 4.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
compat	elop data feedback mechanisms ensuring tability with the Health Insurance Portability countablity Act of 1996 (HIPAA).	S Group 1	Begin in Year 2			
Action	1 Steps					
4.1.1	Identify all contributing agencies from Objective 2	.1.1			S Group 1 & OTSG	
4.1.2	Develop draft data feedback reports and data access who will be collecting/reporting agency developing to be released by the State EMSA annually on the California. The report shall include an evaluation of services as well as plans for improvement.	S Group 1 & OTSG				
4.1.3	Develop guidelines to establish how data will be use to the public and customers of the system.	s and how it will be reported	S Group 1 & OTSG			
4.1.4	Submit draft data feedback reports and access proc needed.	esses to each c	ontributing ag	gency for input and revise as	S Group 1 & OTSG	
4.1.5	Develop process and timelines for developing and	submitting feed	dback reports	to all contributing agencies.	S Group 1 & OTSG	
4.1.6	Develop a list of information points (e.g. patient di feedback to the prehospital crews following deliver			ich should be provided as	S Group 1 & OTSG	
4.1.7	Develop a reasonable time-limit and example reporting processes to meet that time-limit					
4.1.8	Submit time-limit requirement to Subgroup 3 for le	egislative or re	gulatory devel	lopment.	S Group 1 & OTSG	
4.1.9	Include data feedback reports and the process for re Process Guidelines for completion of Objectives 2		State Data Co	ollection and Reporting	S Group 1 & OTSG	

Objective 4.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
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of the o	relop mechanism for confidentiality and security data during feedback process ensuring tibility with HIPAA.	Yes	No	See Objective 2.3	S Group 1	Begin in Year 2
Action	n Steps					
4.2.1	4.2.1 Review feedback reports and data access processes developed under objective 4.1.3 and 4.1.5.				S Group 1 & OTSG	
4.2.2	Identify blinding mechanism for all data reports to	ensure anonyn	nity of provide	er agencies.	S Group 1 & OTSG	
4.2.3	1.2.3 Identify security mechanisms for any data access processes developed.				S Group 1 & OTSG	
4.2.4	4 Include confidentiality and security mechanisms in the <i>State Data Collection and Reporting Process Guidelines</i> for completion of Objectives 2.3.3 - 2.3.8.		S Group 1 & OTSG			

Object	ctive 4.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
ensure	te all necessary changes to current regulations to all EMS system evaluation requirements bed under this goal are included.	Yes	No	Revised regulation language	S Group	Begin in Year 2
Action Steps						
4.3.1	Identify all current, and monitor proposed affected	regulations.			S Group 3	Ongoing
4.3.2	Draft appropriate language revisions for each regulation which would ensure compliance with the <i>State EMS System Data Collection and Reporting Guidelines</i> .				S Group 3	
4.3.3	Upon approval of the Project Team, submit propos next round of regulation changes.	ed regulation r	evisions to the	e EMSA for inclusion in the	S Group 3	

GOAL 5

Establish a mechanism to ensure the data is utilized at the state, local and provider level for continuous quality improvement aimed at improving EMS services and quality of patient care, decreasing death and disability, and reducing costs.

Objec	ctive 5.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
	To develop program for continuous quality Yes Yes See Objective 5.3 improvement at both the state, local, and provider level					Begin in Year 2
Action	ı Steps					
5.1.1	Identify all system participants that should be invo	lved in a CQI p	process.		S Group 2	
5.1.2	Utilizing the NHTSA document entitled, <i>A Leader</i> a model, develop a draft program, which includes a information received through the data collection, reneed of improvement, develop improvement plans, scientific methodology.	S Group 2				
5.1.3	Develop a methodology for utilizing the above program at a state, local and provider level. The methodology developed should identify which parts of the program would require mandatory participation of each system participant, and which parts could be voluntary. (Coordinate efforts with the development of Objectives 10.1 and 10.2).					
5.1.4	Develop a methodology for evaluating the appropriateness of the improvements that have been successfully tested for integration into the statewide EMS system taking into consideration unique rural vs urban program needs and limitations.				S Group 2	
5.1.5	Include program into draft State EMS CQI Guideli	nes (See Objec	ctive 5.3)		S Group 2	

Objec	ctive 5.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop legislation to ensure participation by all system participants in CQI processes No No EMS Quality Improvement Legislation						Begin in Year 2
Action						
5.2.1	Research existing, and monitor proposed statute at CQI involvement.	e current requirements for	S Group 3	Ongoing		
5.2.2	Draft legislative/regulatory language in bullet poin participation.	ts necessary to	ensure state a	nd local QI systems	S Group 3	
5.2.3	Present proposed legislative bullet points to Work	Group D for pr	reliminary app	oroval.	S Group 3	
5.2.4	Present proposed legislative bullet points to Vision process.	Group D				
5.2.5	Assist Project team with legislative process as need	ded			S Group 3	

Objec	ctive 5.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To deve	S Group 2	Begin in Year 2				
Action						
5.3.1	Draft <i>State EMS CQI Guidelines</i> to include all pro of Objective 10.1 (Organizational Structure).	S Group 2				
5.3.2	Submit State CQI Guidelines to Work Group D fo	r preliminary a _l	pproval.		S Group 2	
5.3.3	3.3 Upon approval of the Project Team, submit <i>State CQI Guidelines</i> to the State EMS Commission for approval to begin the formal EMS guideline development process.					
5.3.4	3.4 Work with State EMSA to make revisions during public comment periods.					
5.3.5	Submit guidelines to EMS Commission for adoption	on.	·		S Group 2	

Object	ctive 5.4	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
ensure	To make all necessary changes to current regulations to ensure all EMS CQI requirements developed under this goal are included. No No Revised regulation language					
Action						
5.4.1	Identify all current, and monitor proposed affected	regulations.			S Group 3	Ongoing
5.4.2	b.2 Draft appropriate language revisions for each regulation which would ensure compliance with the <i>State CQI Guidelines</i> .					
5.4.3	Upon approval of the Project Team, submit propos next round of regulation changes.	e EMSA for inclusion in the	S Group 3	-		

GOAL 6 Establish communication linkages with EMS training and prevention programs to ensure needs identified through the evaluation process are integrated into the EMS training curriculum and prevention programs.

<u>Obje</u>	<u>ctive 6.1</u>	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To dev identifi integra	S Group 2	Begin in Year 3				
Action						
6.1.1	In conjunction with Work Group C identify initial affected.	training progra	ıms and C.E. p	processes that may be	S Group 2	
6.1.2	In conjunction with Work Group C develop a proc curriculum being utilized under current regulatory necessary		S Group 2			
6.1.3	Include processes for revising curriculum in the <i>St</i> for completion of Objectives 2.3.3 - 2.3.8.	ate Data Colle	ction and Rep	orting Process Guidelines	S Group 2	

Obje	ctive 6.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
identifi	To develop mechanism to ensure prevention needs identified through system evaluation process are included in statewide prevention programs Yes No See Objective 2.3					
Action						
6.2.1	In conjunction with Work Group F identify preven	tion programs	that may be af	fected.	S Group 2	
6.2.2	In conjunction with Work Group F develop a process: 1) to revise prevention programs under current regulatory standards, and 2) to revise regulatory standards if necessary					
6.2.3	Include processes for revising curriculum in the <i>State of Completion of Objectives</i> 2.3.3 - 2.3.8.	orting Process Guidelines	S Group 2			

Objec	etive 6.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To make all necessary changes to current regulations to ensure all EMS training requirements developed under this goal are included. No No Revised regulation language						Begin in Year 3
Action						
6.3.1	Identify all current, and monitor proposed affected	regulations.			S Group 3	Ongoing
6.3.2	Draft appropriate language revisions for each regul Data Collection and Reporting Process Guidelines	ompliance with the State	S Group 3			
6.3.3	Upon approval of the Project Team, submit propos next round of regulation changes.	e EMSA for inclusion in the	S Group 3			

GOAL 7 Establish system evaluation training for all levels of EMS system personnel to ensure proper documentation, data entry, analysis, utilization of data and an understanding of the principles of research.

Objec	ctive 7.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To deve Guideli	elop State EMS System Evaluation Training nes.	S Group 2	Begin in Year 3			
Action	Steps					
7.1.1	Identify all categories of EMS personnel which sh	ould receive EM	MS system eva	luation training.	S Group 2	
7.1.2	In conjunction with Work Group C, develop traini	ch category of personnel.	S Group 2			
7.1.3	In conjunction with Work Group C, establish instr	S Group 2				
7.1.4	In conjunction with Work Group C, establish proctraining programs.	S Group 2				
7.1.5	In conjunction with Work Group C, establish procadministrative personnel.	ess for training	currently cert	ified/licensed and	S Group 2	
7.1.6	In conjunction with Work Group C, create draft of document to include the above.	the State EMS	System Evalu	ation Training Guidelines	S Group 2	
7.1.7	Submit draft guidelines to Work Group D for preli	minary approva	al.		S Group 2	
7.1.8	Upon approval of the Project Team, submit draft g begin the formal EMS guideline development productions.	EMSA & Group D				
7.1.9	Work with State EMSA to make revisions during J		Group D			
7.1.10	Submit guidelines to EMS Commission for adopti-	on.			EMSA	

Object	ctive 7.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date	
require	To make all necessary changes to current training requirements in regulation to ensure system and evaluation curriculum are included.						
Action							
7.2.1	In conjunction with Work Group C, identify all cur	rrent, and moni	itor proposed	affected regulations.	S Group 3	Ongoing	
7.2.2	7.2.2 In conjunction with Work Group C, draft appropriate language revisions for each regulation which would ensure compliance with the <i>State EMS System Evaluation Training Guidelines</i> .						
7.2.3 Upon approval of the Project Team, submit proposed regulation revisions to the EMSA for inclusion in the next round of regulation changes.							

GOAL 8
Ensure immunity for medical control and quality improvement processes and discovery protection for all local and state EMS quality improvement efforts to ensure cooperation and participation of all EMS participants in patient care and EMS service evaluation.

Obje	ctive 8.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date	
	To develop legislation to ensure immunity for medical control and EMS quality improvement processes No No EMS Quality Improvement Immunity and Discovery Protection Legislation						
Action							
8.1.1	Research existing statute and regulation to determinedical control and QI.	S Group 3	Mar 2000				
8.1.2	Research other state and national mechanisms to e	nsure immunity	for medical of	control and QI.	S Group 3	Apr 2000	
8.1.3	Based upon analysis of research, draft legislative be medical control and QI systems with immunity.	oullet points nec	cessary to prov	vide the state and local EMS	S Group 3	July 2000	
8.1.4	Present proposed legislative bullet points to Work	Group D for pr	eliminary app	proval.	S Group 3	Aug 2000	
8.1.5	Present proposed legislative bullet points to EMS process.	Group D	Oct 2000				
8.1.6	Assist Project Team as needed				S Group 3	On going	

<u>Obje</u>	ctive 8.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop legislation to strengthen confidentiality and discovery protection for the EMS quality improvement process. No No EMS Quality Improvement Immunity and Discovery Protection Legislation						Oct 2000
Action						
8.2.1	Research existing statute and regulation to determine protection for EMS quality improvement processes	S Group 3	Mar 2000			
8.2.2	Research other state and national mechanisms to e	nsure confiden	tiality and disc	covery protection.	S Group 3	Apr 2000
8.2.3	Based upon analysis of research, draft legislative be provider EMS QI systems with confidentiality and	•	• •	vide the state, local, an	S Group 3	July 2000
8.2.4	Present proposed legislative bullet points to Work	Group D for pr	reliminary app	proval.	S Group 3	Aug 2000
8.2.5	Present proposed legislative bullet points to EMS process	Group D	Oct 2000			
8.2.6	Assist Project Team as needed				Group D	On going

Objective 8.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
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ensure	ke all necessary changes to current regulation to consistency with the above suggested immunity, ery and protection legislation.	No	No	Revised regulation language	S Group 3	Begin in Year 2
Action						
8.3.1	Identify all current, and monitor proposed affected	S Group 3	Ongoing			
8.3.2	Draft appropriate language revisions for each affect	S Group 3				
8.3.3	Upon approval of the Project Team, submit propos next round of regulation changes.	S Group 3				

GOAL 9 Establish guidelines for conducting and funding state supported or state required EMS research.

Obje	<u>ctive 9.1</u>	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop guidelines for conducting EMS Research.		Yes	No	See Objective 9.4	S Group 2	Begin in Year 2
Action	1 Steps					
9.1.1	9.1.1 Identify the various types of state required or state funded research that may be conducted to include: trial studies, treatment guideline effectiveness research, EMS system cost evaluation studies, patient outcome studies, etc.					
9.1.2	Identify the various research design methodologies survey, observation, historical, experimental, evaluation	S Group 2				
9.1.3	Identify current requirements and standards for commethodology identified.	S Group 2				
9.1.4 Based upon the organization structure and standard operating procedures for EMS research developed under Objectives 10.1 and 10.2, develop criteria for EMS research based upon above standards which take into practical consideration for research in rural areas with low study populations.					S Group 2	
9.1.5	Include information in EMS Research Guidelines (See Objective	9.3)		S Group 2	

Objec	ctive 9.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop guidelines for EMS Research Funding.		Yes	No	See Objective 9.4	S Group	Begin in Year 2
Action Steps						
9.2.1 Based on the organization structure and standard operating procedures for EMS research developed under Objectives 10.1 and 10.2, and the guidelines for conducting EMS research developed under Objective 9.1, identify the types of research which should be given priority for state funded research projects.					S Group 2	
9.2.2 Develop minimum standards criteria for research projects to be funded by the state EMSA.				tate EMSA.	S Group 2	
9.2.3 Develop strategies which would encourage statewide EMS research projects that meet the minimum standards developed above.				S Group 2		
9.2.4 Include information in EMS Research Guidelines (See Objective 9.3)				S Group 2		

Objec	ctive 9.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop EMS Research Guidelines Document		Yes	No	EMS Research Guidelines	S Group 2	Begin in Year 2
Action Steps						
9.3.1	Develop format for the document.				S Group 2	
9.3.2	3.2 Include written documentation from Objectives 9.2 and 9.3					
9.3.3	Develop draft of <i>EMS Research Guidelines</i> to inchnecessary charts, graphs, organizational chart, pref	S Group 2				
9.3.4	9.3.4 Submit draft guidelines to State EMSA for written comment and revise as needed.					
9.3.5	Submit draft guidelines to Work Group D for com	val.	S Group 2			
9.3.6	Upon approval of the Project Team, submit draft g formal EMS guideline development process.	EMSA & Group D				
9.3.7	Work with State EMSA to make revisions during p	Group D				
9.3.8	9.3.8 Submit final guidelines to EMS Commission for adoption.					

Object	<u>ctive 9.4</u>	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To red	uce barriers to EMS research	Yes	Yes	EMS Research Guidelines	S Groups 2 &3	Begin in Year 2
Action	ı Steps					
9.4.1	9.4.1 Identify all current barriers to conducting EMS research in California such as restrictions for prehospital human subject review					
9.4.2	9.4.2 Identify legislative/regulatory changes in bullet point format required to reduce identified barriers					
9.4.3	Present legislative bullet points to to Work Group D for preliminary approval.				S Group 3	
9.4.4	9.4.4 Present proposed legislative bullet points to Vision Project Team for inclusion in the vision legislative process				S Group 3	
9.4.5	9.4.5 Assist Project Team with legislative process as needed				S Group 3	
9.4.6	9.4.6 Draft appropriate language revisions for each regulation requiring revision				S Group 3	
9.4.7	4.7 Upon approval of the Project Team, submit proposed regulation revision language to the EMSA for inclusion in the next round of regulatory changes.				S Group 3	

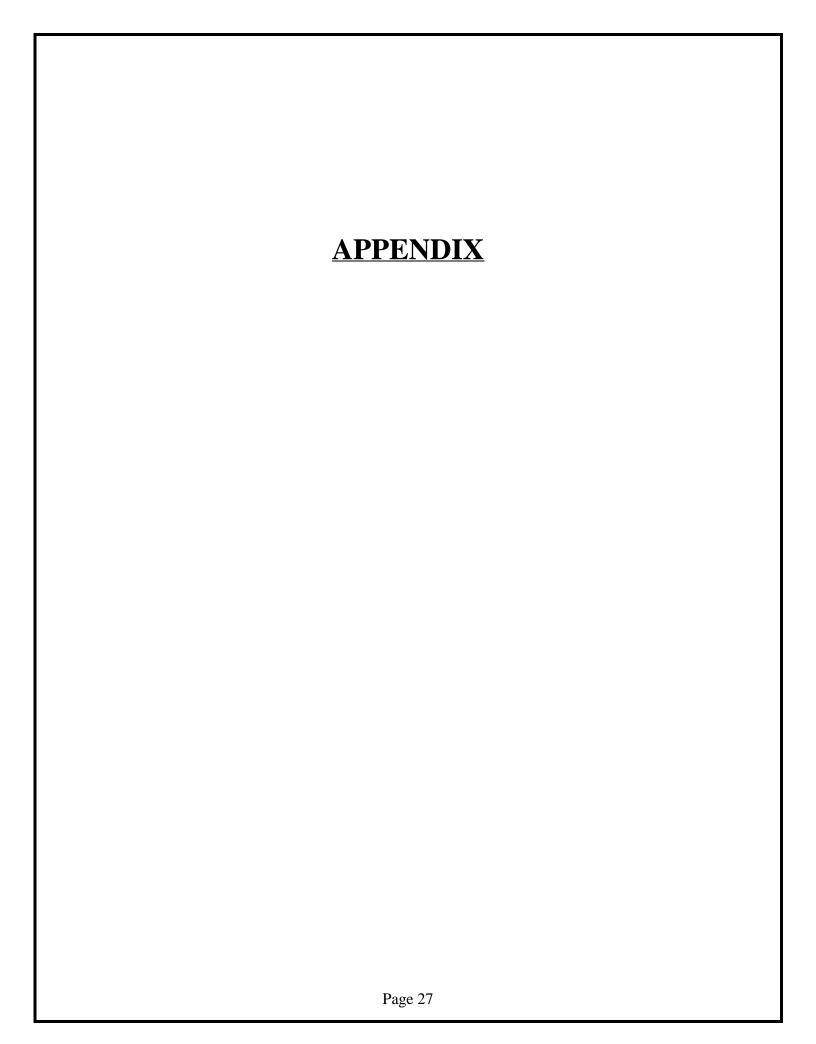
GOAL 10

Establish an organizational structure, standard operating procedures, and funding necessary for the implementation and maintenance of a statewide EMS data collection, evaluation, and improvement process.

Objec	etive 10.1	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop an EMS system evaluation and improvement organizational structure to be included in the State EMS Data Collection and Reporting Process Guidelines, State EMS System Evaluation Guidelines, EMS Research Guidelines and State EMS CQI Guidelines.		Yes	Yes	See Objectives 2.3, 3.5 & 5.3	S Group 2	Dec 2000
Action Steps						
10.1.1 Develop draft organizational structure for statewide data collection, evaluation, and reporting which identifies all affected agencies and there relationship to each other					S Group 2	Jan 2000
10.1.3	10.1.3 Develop draft organizational structure for state required or state funded research oversight which identifies all affected agencies, there relationship to each other, and their linkages the data collection, evaluation and reporting process				S Group 2	Jun 2000
10.1.5 Integrate the organizational structures into the State EMS Data Collection and Reporting Process Guidelines, State EMS System Evaluation Guidelines, EMS Research Guidelines and State EMS CQI Guidelines as appropriate.					S Group 2	TBA

Objec	tive 10.2	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
improve for the i data col included Reportin Evaluat	lop an EMS system evaluation and ement standard operating procedures necessary implementation and maintenance of the EMS election and system evaluation process, to be at in the State EMS Data Collection and any Process Guidelines, State EMS System ion Guidelines, EMS Research Guidelines and MS CQI Guidelines.	Yes	Yes	See Objectives 2.3, 3.5 & 5.3	S Group 2	Dec 2000
Action Steps						
10.2.1 Based upon the organizational structure identified in Objective 10.1, develop draft standard operation procedures for statewide data collection, evaluation, reporting, and research which identifies the roles and responsibilities all affected agencies and the data and communication linkages between each of those agencies.				S Group 2	Mar 2000	
10.2.2 Identify key staff positions at each of the affected agencies and develop model qualifications and job description for each required position			qualifications and job	S Group 2	June 2000	
10.2.3 Integrate the SOPs into the State EMS Data Collection and Reporting Process Guidelines, State EMS System Evaluation Guidelines, EMS Research Guidelines and State EMS CQI Guidelines as appropriate.				S Group 2	TBA	

Object	etive 10.3	Development Funding Needed?	Implement Funding Needed?	Final Deliverable	Activity Lead	Estimated Completion Date
To develop proposed <u>funding</u> mechanisms to maintain the organizational structure and operations of the EMS data collection and system evaluation process.		Yes	Yes	See Objectives 2.3, 3.5 & 5.3	S Group 2	Dec 2000
Action	Steps					
10.3.1	10.3.1 Identify all required staff positions and qualifications, initial and annual equipment costs, programming costs, and operating expenses necessary for start-up and continued maintenance of the state EMS data collection, reporting system				S Group 2	July 2000
10.3.2	10.3.2 Develop initial start-up and annual budget proposals					Oct 2000
10.3.3	10.3.3 Identify possible funding sources for the system, and necessary legislation that will provide secure, ongoing support.				S Group 2	Oct 2000
10.3.4 Submit proposed budgets and list of possible funding sources to the Work Group A (Funding)				S Group 2	Nov 2000	
10.3.5 Work with Work Group A by providing all necessary supporting documentation necessary to secure funding.				S Group 2	TBA	
10.3.6	Include proposed budgets into all appropriate final	reports			S Group 2	TBA



ORIGINAL VISION OBJECTIVES AND NHTSA RECOMMENDATIONS ASSIGNED TO WORK GROUP "D"

	VISION PROCESS OBJECTIVES ASSIGNED	Where the Objective is Addressed in the Action Plan
1.	Identify two to three indicators for QI in each of the three areas: dispatch area, field, and in the hospital.	Goal 3
2.	Develop benchmarks for EMS system evaluation based on results. Share results internally and with EMSA. Evaluate and publish results where appropriate.	Goal 3 and 4
3.	Assess the need for, and if necessary, promote legislation to ensure continuous medical quality improvement in the EMS system.	Goal 5
4.	Develop a Statewide Integrated Information System driven by the scope and purpose to acquire, process, and disseminate information to all necessary stakeholders in order to evaluate and improve the delivery of all services delivered by the EMS System. The information system will contain all of the following components: 1. Funding 2. Identification of all customers 3. Standardized data sets 4. Coordination of all participants 5. Client identification 6. Confidentiality and security 7. Transmission 8. Central repository 9. Database linkage 10. Dissemination	Goal 2, 3 and 4
5.	Research, identify, and expand non-traditional roles for <u>all practitioners</u> based on community needs and benefits.	Sent back to Project Team for reassignment
6.	Implement QI programs in order to provide continuing review of program effectiveness for administration, system planning, and evaluation activities.	Goal 1, 5 and 10
7.	Document the costs to medical facilities associated with their support of the EMS System.	Goal 3.4
8.	Work with the hospital industry to determine the amount of uncompensated care provided through the ER.	Goal 3.4

9.	Establish a multi-disciplinary task force to include payers to develop suggestions for studies and cooperative ventures between public health, public safety, and payers directed at education which may reduce morbidity and mortality of certain patient populations and/or disease and injury processes locally. Actively seek out and broker the establishment of cooperative ventures and measurement parameters (of intervention success, cost of delivery, and cost avoidance), and report its findings to the State EMS Commission. Distribute the results of these ventures into the health care community with the goal of reporting successful and unsuccessful methodologies.	Goal 3, 4, 5, 6, 9, and 10
10.	Design and establish a statewide QI capability in collaboration with the identified EMS stakeholders.	Goal 1, 5, 7, and 10
11.	The Health and Safety Code should be modified to provide immunity for medical control and quality improvement for local EMS agency medical directors and provider agencies.	Goal 8
12.	The Health and Safety Code should be modified to provide discovery protection for provider and local EMS agency quality improvement activities.	Goal 8
13.	Due to the unique nature of interfacility transport (IFT), this area needs to be evaluated and addressed as a unique entity within emergency services.	Sent back to Project Team for reassignment
14.	Conduct an assessment of PSAPs in California to determine optimal configuration and interface with EMS.	Sent back to Project Team for reassignment

	NHTSA ASSESSMENT RECOMMENDATION	Where the Recommendation is Addressed in the Action Plan
9.	The EMS Authority should establish performance standards for LEMSAs and should develop a system for monitoring and evaluating the LEMSA including the provision of technical assistance in areas needing improvement.	Goal 1
11.	The EMS Authority should write, and help shepherd through the legislative process, legislation to assure confidentiality and non-discoverability of EMS and trauma records, and EMS provider protection while participating in EMS Quality Improvement (QI) activities.	Goal 8
18	Develop and implement more definitive EMSA review criteria and process for LEMSA plans and other requests.	Goal 1
19.	Develop a resource assessment process with and through the LEMSAs.	Goal 1
23.	Establish a comprehensive statewide EMS and trauma data collection and EMS system resource information system.	Goal 2
71.	EMSA should define a mechanism to provide physician oversight to review patient care, establish performance indicators and development of ongoing quality improvement programs in the state EMS plan.	Goal 10
75.	Information and trends developed from the trauma registry should be utilized in PIER and injury prevention programs.	Goal 3, 4, 5, and 6
77.	Mechanisms should be delineated to ensure that data on trauma patients from all hospitals that deliver care to these patients must be entered into the LEMSA and state trauma registry and that this is managed in a confidential manner.	Goal 2 and 4
78.	Develop a comprehensive, medically directed statewide quality improvement program to evaluate patient care processes and outcomes.	Goal 5
79.	Develop a statewide integrated information system (as described in the Vision document) that will have the capability to monitor, evaluate, and elucidate emergency medical services and trauma care in California.	Goal 1, 2, 3, 4, 5, and 10
80.	Ensure the design capability for linkages of the statewide integrated information system to other public and private data systems.	Goal 2 and 4
81.	Allocate personnel and resources to implement the statewide integrated information system including necessary technical assistance, materials, and funding to LEMSAs.	Goal 10
82.	Enforce the use of a uniform prehospital data set consistent with the NHTSA Uniform Prehospital Data Set. Mandate submission of an agreed-upon, timely, limited, uniform, common language data set from the LEMSAs to the EMSA.	Goal 2 and 3
83.	Seek ways to improve the number of completed patient care records that are delivered to the ED staff upon patient arrival with a goal of 98% compliance.	Goal 5
85.	The EMSA should write, and help shepherd through the legislative process, legislation to assure confidentiality and non-discoverability of EMS and trauma records and EMS provider protection while participating in EMS QI activities.	Goal 8

(ANTICIPATED) DOCUMENTS TO BE DEVELOPED

The following is a list of documents that are anticipated to be developed during Phase II of the project.

NOTE: Most of the documents listed below are identified for development as "Guidelines." However, during the development process it may become evident that some of the documents should, instead, be developed as regulation or statute. These adjustments will be made as the process progresses.

State EMS Data Set

State EMS Authority Evaluation Guidelines

Local EMS Agencies Evaluation Guidelines

State EMS Data Collection and Reporting Process Guidelines

State EMS System Evaluation Guidelines

System Performance

Training Programs Data Indicators

Dispatch Data Indicators

First Response Data Indicators

Ambulance Transport Provider Data Indicators

Special Response Services Data Indicators

Base Hospital Data Indicators

Receiving Hospitals Data Indicators

Specialty Care Services Data Indicators

Disaster/Multi-Casualty Incidents Data Indicators

System Performance Evaluation Process

Quality of Care

Treatment Protocols Compliance Indicators

Skill Success Rates Indicators

Quality of Care Evaluation Process

Treatment Protocols Evaluation Process

Customer Satisfaction

Customer Satisfaction Indicators

Customer Satisfaction Evaluation Process

Cost of Services

Cost of Service Indicators

Cost of Services Evaluation Process

State EMS Continuous Quality Improvement Guidelines

State EMS System Evaluation Training Guidelines

EMS Research Guidelines

Project Bibliography

REQUIRED LEGISLATION

Following is a list of EMS system review and data issues which have been identified that are not adequately addressed in current statute, and will require new legislation to clarify and enhance the EMS data collection and evaluation process. This is a preliminary list which may be added to as legislative needs are identified.

- 1. Mandatory participation by all EMS system participants and hospitals in the statewide EMS CQI program(s) and data collection processes
- 2. Immunity for medical control and quality improvement activities at both a state and local level
- 3. Confidentiality and discovery protection for provider, local EMS agency, and state quality improvement efforts
- 4. Funding for the statewide EMS evaluation and quality improvement program
- 5. Provide support and reduce barriers to perform EMS research to include a statewide human subject review approval process for out-of-hospital research

REQUIRED REGULATORY CHANGES

1. A matrix of affected regulations will be developed listing each proposed regulatory revision by objective.